Mumbai University

Question Paper

[IDOL – Revised Course]
(October – 2016)

Paper - IV

Elective

Project

Management

Time: 3 Hours   **Total Marks:** 100

N.B.: **(1)** *All Question are Compulsory.*
    (2) *Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.*
    (3) *Answer To The Same Question Must Be Written Together.*
    (4) *Number To The Right Indicates Marks.*
    (5) *Draw Neat Labeled Diagrams Wherever Necessary.*
    (6) *Use of Non – Programmable Calculator is allowed.*

Q.1 ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) What are the three generations of Software Development? Compare them. **(5)**
(B) Explain the significance of Vision Document. **(5)**
(C) What are the four basic principles of Software Process Workflow? **(5)**
(D) Explain the three states of artifacts in Project Environment. **(5)**

Q.2 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Explain Boehm's Staffing Principle. **(5)**
(B) Explain some of the suggestion to improve Waterfall Model. **(5)**
(C) List Boehm's top 10 principles of conventional S/W Management. **(5)**
(D) Explain the process of Cost Estimation. **(5)**
(E) What are five basic parameters of improving Software Economics? Explain. **(5)**
(F) What is customization of component & compare them with Commercial Components. **(5)**

Q.3 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) List Davis's any ten principles of Conventional Software Engineering. **(5)**
(B) Explain the Life Cycle Phases of a Modern Software Development Process. **(5)**
(C) Briefly explain the Management Artifact Sets. **(5)**
(D) Describe the three aspects of Architecture from the Management Perspective. **(5)**
(E) "Management set artifacts associated with process planning & execution" – justify the statement. **(5)**
(F) What are the different types of checkpoints of a process? Explain. **(5)**

Q.4 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) Explain the Seven Top Level Workflows. **(5)**
(B) Write a short note on mirror milestone and on periodic status assessment. **(5)**
(C) Explain the Evolution of Work Breakdown Structure. **(5)**
(D) Explain two Planning Guidelines. **(5)**
(E) Write a short note on Pragmatic Planning. **(5)**
(F) Explain the two perspectives through which project plans need to be derived. **(5)**

Q.5 ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A) What is the Default Project Organization? Explain the main characteristics. **(5)**
(B) What are the key points that software architecture team should focus on? Explain their Roles, Artifacts and Responsibilities. **(5)**
(C) Compare the Life-Cycle Focus of Project Organization with respect to Software Management Team. **(5)**
(D) Enlist the set of activities evolved over the Life-Cycle. Explain the same. **(5)**
(E) Why the tools are considered as the core components in the process automation? Explain. **(5)**
(F) Explain "Round Trip Engineering" with neat diagram. **(5)**

[TURN OVER]

Q.6   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Discuss the seven core metrics for project control and process instrumentation.   **(5)**

(B)   Explain the four quality indicators' metrics in detail.   **(5)**

(C)   Explain the automation of process with neat diagram.   **(5)**

(D)   Enlist the factors of tailoring a Software Process Framework. Explain the Scale Factor in detail.   **(5)**

(E)   Compare and contrast small-scale and large-scale projects.   **(5)**

(F)   Explain the process discriminators resulting from differences in project size.   **(5)**

Q.7   ATTEMPT ANY THREE QUESTIONS: (15 MARKS)

(A)   Explain all the approaches of how a modern process framework resolves the weakness of conventional approach.   **(5)**

(B)   Enlist the various principles of Modern Project Management.   **(5)**

(C)   Compare and contrast how the project differ between a conventional approach and a modern process.   **(5)**

(D)   Write an exhaustive note on "Culture Shift".   **(5)**

(E)   Explain the process of Denouement.   **(5)**

(F)   State the traits of modern process of development.   **(5)**